COURSE DESCRIPTION CARD - SYLLABUS

Course name
English [S2MiBM2>JA]

Course

Field of study
Mechanical Engineering

Year/Semester
2/3

Area of study (specialization)
Virtual Engineering Design

Profile of study
general academic

Level of study
second-cycle

Course offered in
Polish

Form of study
full-time

Requirements
elective

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
30

Projects/seminars
0

Number of credit points

2,00

Coordinators

mgr Izabela Cichocka
izabela.cichocka@put.poznan.pl

Lecturers

Prerequisites

The already acquired language competence compatible with level B2 (CEFR). The ability to use general and field specific vocabulary, and grammatical structures required on the first level of studies. The ability to work individually and in a group; the ability to use various sources of information and reference works.

Course objective

Advancing students' language competence towards at least level B2+ (CEFR). Development of the ability to use academic and field specific language effectively in both receptive and productive language skills. Improving the ability to understand field specific texts. Improving the ability to function effectively on an international market.

Course-related learning outcomes

Knowledge
1.The student ought to acquire field specific vocabulary related to manufacturing techniques as well as repairs and maintenance and to be able to define and explain associated terms, phenomena and processes.
2. The student ought to acquire field specific vocabulary related to disc brakes and robotics and to be able to define and explain associated terms, phenomena and processes.

3. The student ought to acquire field specific vocabulary related to central heating and refrigerator and to be able to define and explain associated terms, phenomena and processes.
4. The student ought to acquire field specific vocabulary related to recycling and to be able to define and explain associated terms, phenomena and processes.
Skills
1. The student is able to give a talk on field specific or popular science topic (in English), and discuss general and field specific issues using an appropriate linguistic and grammatical repertoire.
2. The student is able to formulate a text in English where he/she explains/describes a selected field specific topic.
3. The student is able to understand and analyze international, field specific literature.
Social competences
1. The student is able to communicate effectively in a field specific/professional area, and to give a successful presentation in English.
2. The student is able to recognize and understand cultural differences in a professional and private conversation, and in a different cultural environment.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge acquired during the classes is verified by one test and a presentation. The test consists of several tasks (open and closed).

Programme content

Reaching high degree of academic, business and social communication. Revising and extending vocabulary within the scope of: general engineering (recycling, robotics), mechanical engineering (manufacturing techniques, repairs and maintenance, disc brakes, central heating, refrigerator).

Course topics

Recycling - stages/methods; manufacturing techniques - evaluation of cutting options/water-jet cutting; repairs and maintenance - car maintenance vs. aircraft maintenance/carrying out repairs; disc brakes - operation/energy conversion in braking/calipers; central heating- components and their function/operation;. robotics- industrial robots/work volume and degrees of freedom/types of manipulators/ mechanical wrist/ stepper motors; refrigerator- components and their function/operation

Teaching methods

The teaching methods focus on the development of the four basic language skills (listening, speaking, reading, and writing), which are used to expand substantive knowledge in technical fields.

Bibliography

Basic:
Glendinning, E.H. and Glendinning, N. 2008. Oxford English for Electrical and Mechanical Engineering. Oxford: Oxford University Press.

Ibbotson, M.2009 Professional Elnglish in Use.Cambridge: Cambridge University Press

Additional:
Internet based materials.

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	20	1,00